

# Homework February 5, 2010

## Page 119 Text book

- 8.** Multiply. Use benchmarks to estimate to check the product is reasonable.

a)  $\frac{3}{5} \times \frac{2}{3}$     b)  $\frac{1}{2} \times \frac{5}{10}$     c)  $\frac{1}{6} \times \frac{1}{4}$

d)  $\frac{13}{8} \times \frac{3}{2}$     e)  $\frac{5}{4} \times \frac{11}{10}$     f)  $\frac{7}{3} \times \frac{7}{8}$

Which of these questions could have been solved using mental math?

Justify your choice.

- 9.** Solve each problem. Estimate to check the solution is reasonable.

- a) Josten took  $\frac{3}{8}$  of his savings on a shopping trip. He used  $\frac{1}{4}$  of the money to buy a new coat.

What fraction of his savings did Josten spend on the coat?

- b) Gervais ate  $\frac{1}{3}$  of a baguette with his dinner. Chantel ate  $\frac{1}{4}$  of the leftover baguette as an evening snack.

What fraction of the baguette did Chantel eat as a snack?

- 11.** Eeva spent  $\frac{5}{6}$  of  $\frac{3}{4}$  of her total allowance on a hair crimper. What fraction of her total allowance did Eeva have left?

- 12. a)** Find each product.

i)  $\frac{3}{4} \times \frac{4}{3}$

ii)  $\frac{1}{5} \times \frac{5}{1}$

iii)  $\frac{7}{2} \times \frac{2}{7}$

iv)  $\frac{5}{6} \times \frac{6}{5}$

- b) What do you notice about the products in part a? Write 3 more pairs of fractions that have the same product. What can you say about the product of a fraction and its reciprocal?

$\frac{11}{12}$  and  $\frac{12}{11}$  are reciprocals.